INTAKE DEVICE FOR INTERNAL COMBUSTION ENGINE

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Abstract of JP63223319

PURPOSE: To improve the charging efficiency of intake air by providing many recess parts on the inside surface of a downstream end of an intake pipe and a bending part on the inside surface of the peripheral wall of an intake port respectively, and thereby generating a static vortex in each recess part to reduce the intake resistance of the intake air. CONSTITUTION: An intake device is composed of an intake pipe 1, a siamese port 2 formed of intake ports 3 communicating with the intake pipe 1, and intake valves 5 provided in the intake ports 3. In this case, the downstream end 1a of the intake pipe 1 and a bending part 10a on the peripheral wall 10 of the siamese port 2 are formed with many recess parts 11 respectively, for instance in a zigzag shape. A mixture flow along the pipe wall of the intake pipe 1 is therefore caused to flow into each recess part 11 to generate a static vortex C there. Thus the mixture flow is guided along the static vortex to prevent its separation, and drawn into the intake valve 5 in a laminar flow. Consequently, since a mixture flow passage is never throttled, the intake air can be effectively charged even through the intake pipe 1 formed into small bore.

